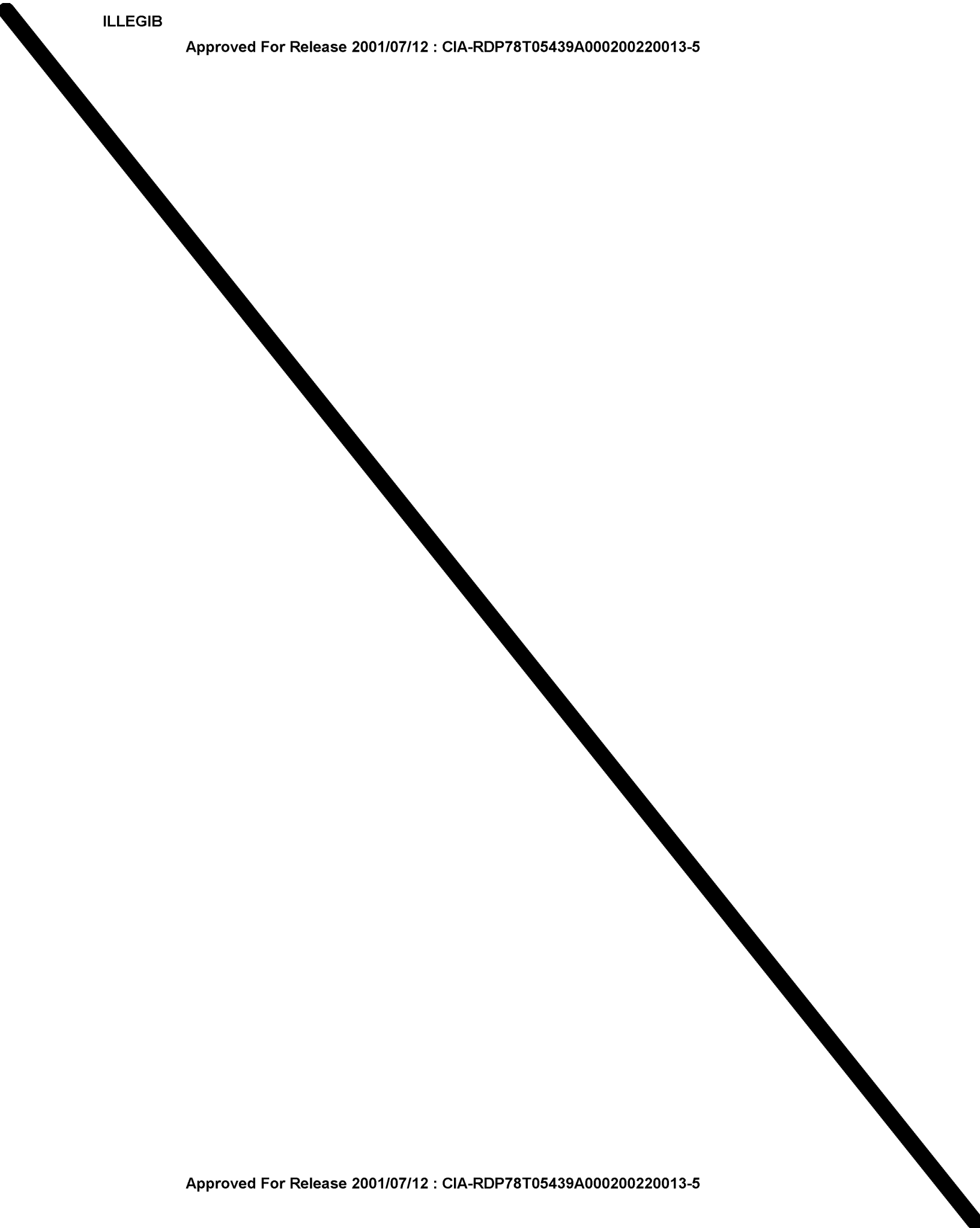


Approved For Release 2001/07/12 : CIA-RDP78T05439A000200220013-5

~~TOP SECRET~~ [redacted]

25X1A

CST 193-59 (C)
No. Pages 8
Copy No. 1

Photographic Intelligence Report

LEAD PLANT AND MINES

TETYUKHE-PRISTAN' AND TETYUKHE, U S S R

25/11/63
59

S-8240

25X1A

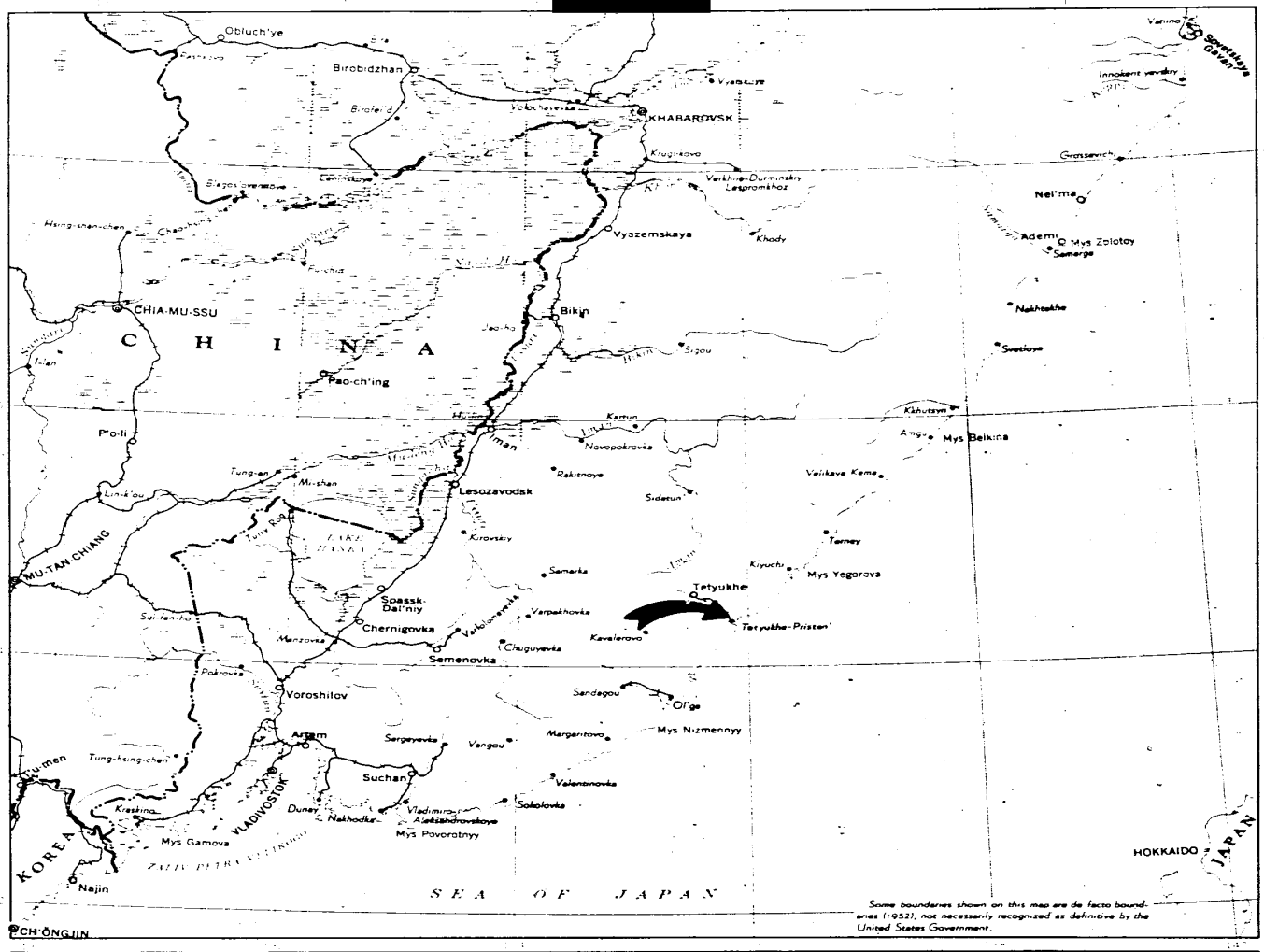
PIC/R-1/59
MAY 1959

CENTRAL INTELLIGENCE AGENCY
PHOTOGRAPHIC INTELLIGENCE CENTER

Handle via [redacted] Control Channels

25X1A

~~TOP SECRET~~ [redacted]



U. S. S. R.

KHABAROVSK-VLADIVOSTOK AREA

International boundary — Road (selected) — Trail (selected) — Railroad

Scale 1:4,800,000

0 50 100 150 200 Miles

0 50 100 150 200 Kilometers

Base 12069 1-52

S-82-40

PIC/R-1/59

LEAD PLANT AND MINES TETYUKHE-PRISTAN' AND TETYUKHE, USSR

A major Soviet lead plant, part of the Sikhote-Alin (Sikhale) Combine, is located at Tetyukhe-Pristan' on the Sea of Japan approximately 350 kilometers northeast of Vladivostok. The source of the ore is a lead-zinc deposit in the Tetyukhe Valley region of the Sikhote Alin Mountain Range. The mines and concentration plants are in the vicinity of Tetyukhe which is some 35 kilometers northwest of Tetyukhe-Pristan'.

A narrow-gauge railroad connects the mines with ore concentrating mills at Tetyukhe, and with the smelter and port facilities at Tetyukhe-Pristan'. Coal, coke, POL, and other supplies for the Combine are brought by water to Tetyukhe-Pristan', where they are stored and delivered by rail to the various components of the Combine.

A mosaic (Figure 4) is included to show the entire area from the port to the mining region, since no accurate large-scale maps of this area are available. A photograph and map of Tetyukhe-Pristan' (Figures 1 and 2) show the port, the railroad, and storage facilities, as well as the location of the lead plant. A detailed layout of the lead plant (Figure 3) is also included, but the extreme small-scale coverage of the lead mining areas and nearby ore concentration plants prevent detailed analysis of these installations.

PIC/R-1/59

Fig. 1

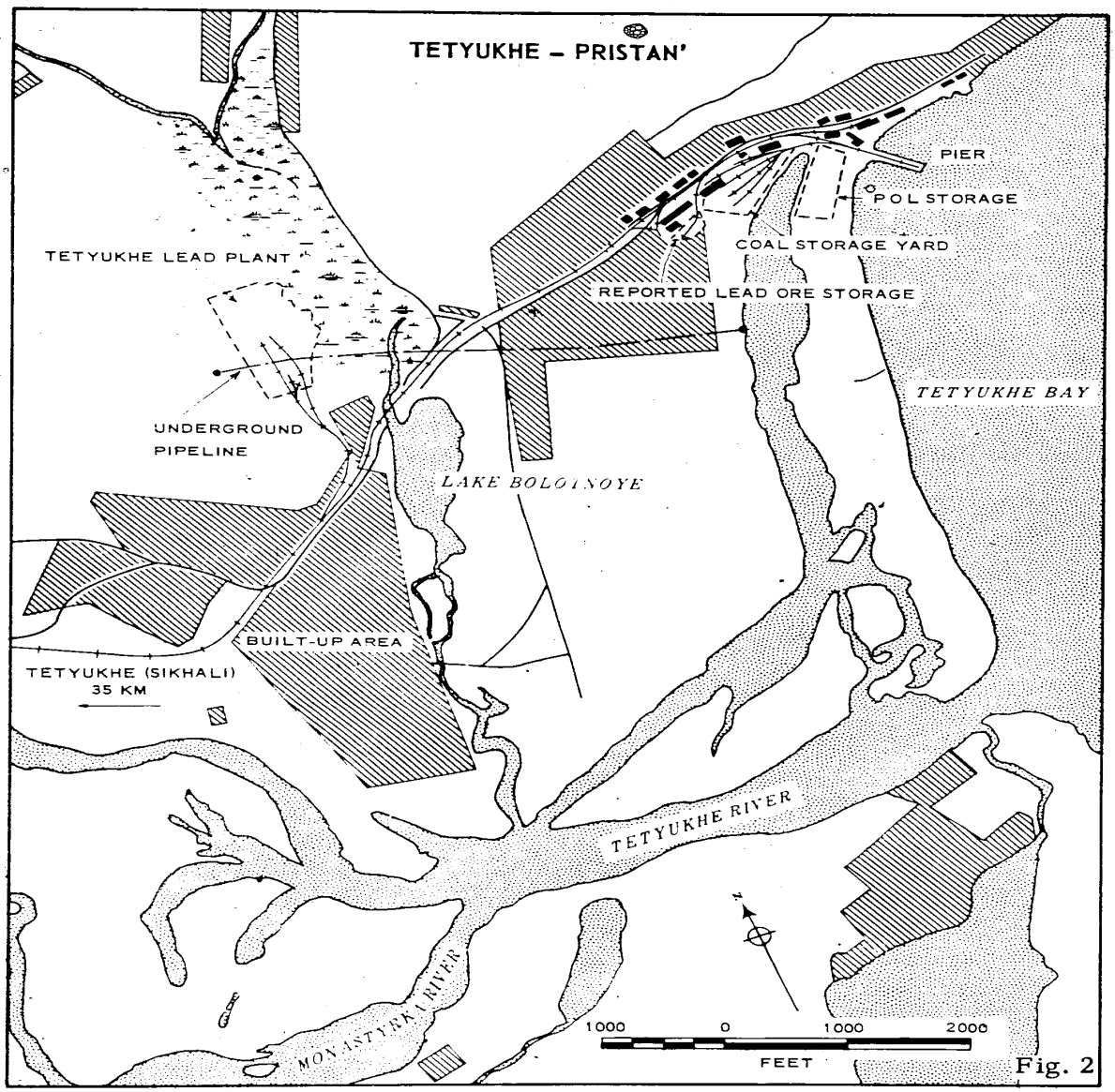

TETYUKHE – PRISTAN'
PIER
POL STORAGE
COAL STORAGE YARD
REPORTED LEAD ORE STORAGE
TETYUKHE LEAD PLANT
TETYUKHE BAY
UNDERGROUND PIPELINE
LAKE BOLOYNOYE
BUILT-UP AREA
TETYUKHE (SIKHALI) 35 KM
TETYUKHE RIVER
MONASTYRKA RIVER
N
1000 0 1000 2000
FEET

Fig. 2

PIC/R-1/59

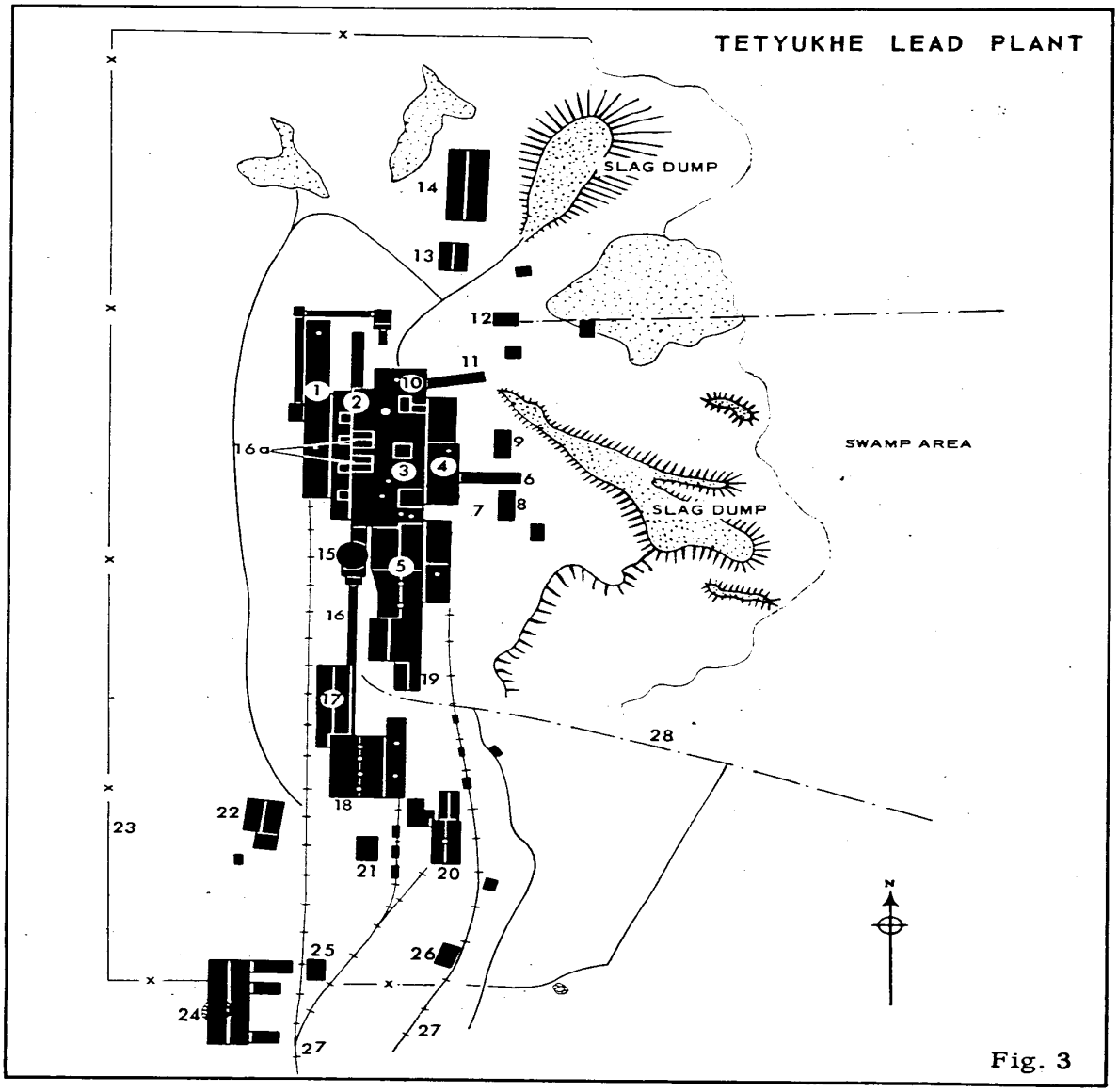


Fig. 3

KEY TO ANNOTATIONS 25X1D

1. Lead ore, coke, and coal handling and storage, [redacted] Lead ore concentrate is brought into the plant by a single-track narrow-gauge railroad from the mines and concentration plants at Tetyukhe (Sikhali), approximately 35 kilometers to the northwest. Coke and coal are delivered to the plant by narrow-gauge railroad from the storage areas located near the Tetyukhe-Pristan' pier. The coke, coal, and small quantitites of ore concentrate are reported to be shipped to Tetyukhe-Pristan' from Vladivostok.
2. Smelter, 195 by 125 feet. Contains four ore hearth furnaces in a line, reported to be Newnman Hearths. The over-all measurements of the smelter includes the sections designated by annotations 3, 4, and 10.
3. Drossing section. This section of the smelter is believed to contain two reverberatory furnaces. The molten lead is reported to flow down a metal pipe to a softening furnace.
4. Softening furnace and lead casting and finishing shop.
5. Desilverization section, including two adjoining buildings. Reported to house two dupel furnaces. Silver is also molded and stored here.
6. Overhead traveling crane, 65 feet long, for transporting and handling lead ingots in the cooling and storage area.
7. Open storage of lead ingots. The final product is stored in this area for shipment by rail to the pier at Tetyukhe-Pristan'.
8. Unidentified building, 40 [redacted] feet, between storage area and slag dump.
9. Unidentified building, 40 [redacted] feet, between storage area and slag dump.
10. Slag smelting section. Reported to contain two furnaces, one of which is a blast furnace.

11. Overhead conveyor, 65 feet long, for handling and transporting slag to the adjacent dump.

25X1D 12. Water pumping station, 20 [redacted] feet. A ground scar leads from the building eastward through the swampy area to a stream. This may be a pumping station for disposal of water used in the plant.

25X1D 13. Storage building, [redacted] 20 feet 25X1D

14. Warehouse [redacted] feet 25X1D

25X1D 15. Probable water storage tank, [redacted] in diameter at the top.

16. Flue from smelter to baghouse. The flue passes along the side of the compressor house (17) before entering the baghouse (18).

25X1D 16a. Two precipitators, each [redacted] feet, located atop the roof of the smelter. These precipitators are associated with the flue leading to the baghouse.

25X1D 17. Compressor house, [redacted] feet. Supplies compressed air for the smelter furnaces.

25X1D 18. Baghouse, [redacted] feet, with attached building [redacted] feet. The baghouse has four steel stacks protruding from the center of the roof. The flue from the smelter enters the baghouse from the north. A railroad spur from the sourth appears to enter the attached building on the east side of the baghouse.

25X1D 19. Possible diesel power plant, 40 [redacted] feet. A diesel power plant is reported to exist in this area of the lead plant

20. Thermal-electric power and steam plant, [redacted] feet. One smoke-stack is evident.

21. Unidentified building, 25 by 20 feet.

22. Reported mess hall, [redacted] feet.

23. Board fence enclosing the plant on the north, west, and south sides. A swamp borders the plant on the east side.

24. Laboratory and administrative building, [redacted] 40 feet, with one wing 40 [redacted] feet and two wings [redacted] feet.
25. Main entrance and guardhouse, [redacted] feet. 25X1D
26. Warehouse, [redacted] feet. 25X1D
27. Narrow-gauge railroad serving the plant. A railroad spur, which branches off to the north from the main narrow-gauge railroad running east/west through the town, divides into three spurs before entering the plant from the south side.
28. Ground scar leading from the plant to a lagoon near Tetyukhe Bay. Where the scar terminates at the lagoon there is a small building. This may be a water pipeline and pumping station for the lead plant.

REQUIREMENT: Prepared in answer to RR/E/S5/58 requesting a description and layout of the Tetyukhe Lead Plant, and RR/E/S11/58 requesting information on a possible flotation plant at Tetyukhe.

PHOTO DATA

25X1D [redacted]

MAP DATA:

ATMP; 0282-9994-25A (Prov), 1st Interim Ed., Apr 53
0282-9994-100A (Prov), 1st Interim Ed., Apr 53
Primorskiy Kray, Glavnoe Upravlenie Geodezii i Kartografii MVD SSR, Moskva, 1957. Scale 1:1,250,000

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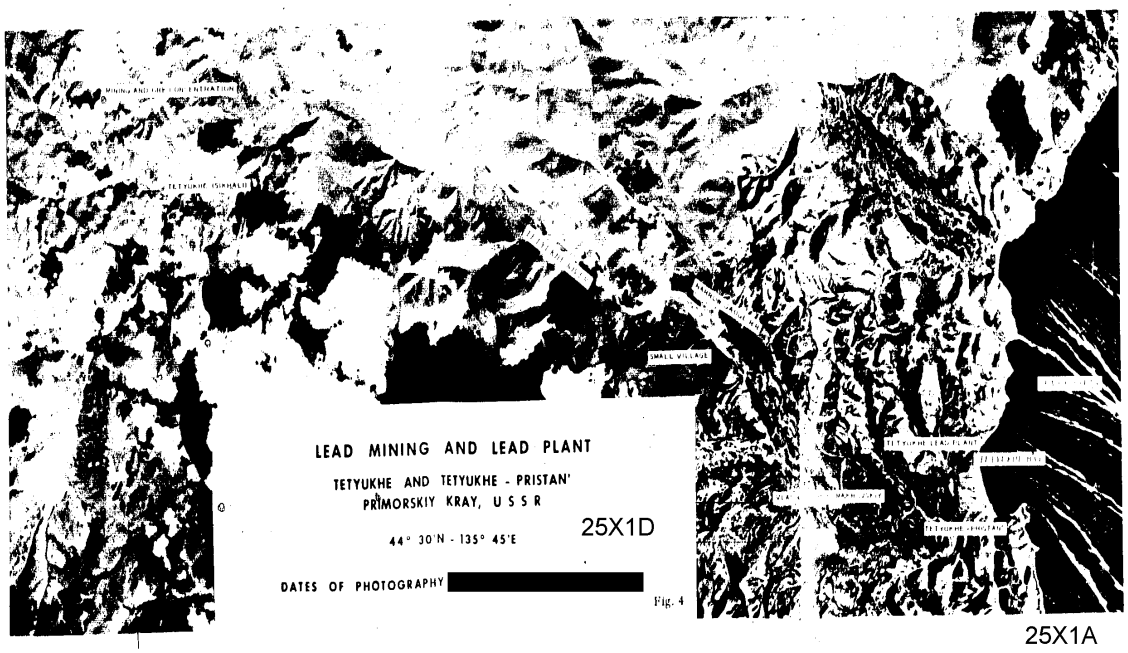
2. "Southeastern Coastal Region of Siberia, Vladimir Bay to Terney Bay", Special Photo Intelligence Report No. 85, Jan 53. USAF, Dir of Intell, Coll Div, Reconn Br-Photo Intelligence Section. (S)
3. Air, 6004th AISS. Report 4454-D [redacted] (C) 25X1D
4. Air, 6004th AISS. Report R & I 549 [redacted] (S)
5. Air, 6004th AISS. Report 3475 [redacted] (C) 25X1D
6. Air, 6004th AISS. Report 3659 [redacted] (C)
7. Air, 6004th AISS. Report 4191-A [redacted] (C) 25X1D

COORDINATES: 44°34'N/135°37'E Tetyukhe
44°22'N/135°51'E Tetyukhe-Pristan'

B.E. NUMBERS:

25X1A [redacted]

Tetyukhe Lead and Zinc Deposit
Tetyukhe Lead Plant Sikhote Alin
Tetyukhe Port Facilities
Tetyukhe Thermal Power Plant Lead Plant
Tetyukhe Petroleum Storage



LEAD MINING AND LEAD PLANT

TETYUKHE AND TETYUKHE - PRISTAN'
PRIMORSKIY KRAY, U S S R

25X1D

44° 30'N - 135° 45'E

DATES OF PHOTOGRAPHY [redacted]

Fig. 4

25X1A